



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6430@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLSWARAM, BANGALORE - 3

8	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /50-100 cum	100.22	10	10
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
10	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
11	BC	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
12	BITUMEN	Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
		Rate of spread	One Test		1	1
13	TACK COAT	Rate of spread	One Test		1	1

ಇದರಲ್ಲಿ ಸಹಿ: 
ಇನ್‌ಚಾರ್ಜ್ ಆಗಿರುವ ಉಪ ನಿರ್ದೇಶಕರು
ಪಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-24

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-06-13-08 Date: 11-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R. Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-05-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 09-05-23

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	-
2	Fineness by Air permeability method (m ² /kg, Min)	282.2	225m ² /kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL PRO.



KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಇದರಲ್ಲಿ ಒಂದು ಸಂಪೂರ್ಣ ಪ್ರತಿರೋಧಕವಿದೆ
ಇದರಲ್ಲಿ ಒಂದು ಸಂಪೂರ್ಣ ಪ್ರತಿರೋಧಕವಿದೆ
ಇದರಲ್ಲಿ ಒಂದು ಸಂಪೂರ್ಣ ಪ್ರತಿರೋಧಕವಿದೆ
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-06-13-08 Date: 06-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-05-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 09-05-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.
Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಇದರಲ್ಲಿ ಉಲ್ಲೇಖಿಸಿದ ವಿಷಯವು
ಪರಿಶೀಲಿಸಲ್ಪಟ್ಟಿದೆ ಮತ್ತು ಸರಿಯಾಗಿದೆ ಎಂದು
ಪರಿಶೀಲಿಸಲಾಗಿದೆ. 15/06/2023
End of Report



FOR CIVIL PRO
KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-06-13-08 Date: 11-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division,
BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and
Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross,
Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 08-05-23
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 08-05-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

Page 1/2

ಇದರಲ್ಲಿ 40mm ಕ್ಕೆ ಅಧಿಕವಾಗಿರುವ
ಉಳಿದುಕೊಂಡು ಉಳಿದುಕೊಂಡು
ಬಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-28



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-06-13-08

Date: 11-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.25	—

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

[Signature]
KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

****End of Report****

[Handwritten signature]
ಇಂಜಿನಿಯರ್ ಕಾರ್ತಿಕ ರೇಚನ್
ಪ್ರಾಥಮಿಕ ಮತ್ತು ಮಧ್ಯಮ ಶಾಲೆಗಳ
ಮಾಹಿತಿ ಮತ್ತು ಸೇವೆಗಳ ವಿಭಾಗ
ಎ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-24

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-06-13-08	Date: 11-05-23
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu	
Agency	:	M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/164/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-05-23	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	08-05-23	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	-

Page 1/2



ಕರ್ನಾಟಕ ಕಾರ್ಮಿಕರ ಅಭಿಮಾನಿಗಳು
ಬ್ಯಾಲರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಒ., ಬೆಂಗಳೂರು-24

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2023-06-13-08

Date: 11-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.50	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.28	—
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

ಪ್ರಾಜೆಕ್ಟ್ ಇಂಜಿನಿಯರ್
ಕೃಷ್ಣಕುಮಾರ್ ಎಸ್ ಎಚ್
ಪು.ನಿ.ವಸು.ಕೆ., ಬೆಂಗಳೂರು
Page 2/2
End of Report*



FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-06-13-08 Date: 11-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-05-23
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 08-05-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

Page 1/2



ಪರೀಕ್ಷಾ ನಿಯಮಿತ ಅಧಿಕಾರಿ
ಜ್ಯೋತಿರಾಚಾರ್ಯರು ಉಪ ನಿರ್ದೇಶಕರು
ಪಿ.ಪಿ.ಎಂ.ಎ., ಬೆಂಗಳೂರು-೨೩

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Scanned by CamScanner



TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2023-06-13-08

Date: 11-05-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	—
2	Specific Gravity	2.55	—
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

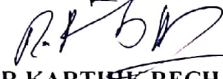
All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.


R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Page 2/2

****End of Report****



ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಅಭಿವೃದ್ಧಿ
ಪ್ರಾಧಿಕಾರಗಳ ಸಚಿವರು
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2023-06-13-08 Date: 09-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 08-05-23
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 08-05-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.392	522	642	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.613	532	658	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	548	672	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯದ ಅಧಿಕಾರವು
ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯದ ಉಪ ನಿರ್ದೇಶಕರು
ಬಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು
Page 1/1
End of Report*



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-06-13-08 Date: 22-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Sample Type /Size : Precast Cover Slab - 100mm Thick
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 18/05/2023

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.42	100.48	1.116	4707	102.6	21.8	20.3	25.3
2	Cover Slab-2	77.5	100.52	1.122	4716	98.6	20.9	19.4	24.3
3	Cover Slab-3	77.58	100.51	1.118	4726	105.7	22.4	20.8	26.0

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಪ್ರಾಧಿಕಾರಿತ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ್ಯೋತಿರಾಯನಹಳ್ಳಿ ಉಪವಿಭಾಗ
ದಿ.ದಿ.ಮಂ.ಸಂ. ಬೆಂಗಳೂರು-24
Page 1/1
End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-06-13-08 Date: 22-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-05-23
Sample Type /Size : Precast Cover Slab - 230mm Thick
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test : 18/05/2023

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.51	230.58	1.116	4718	104.5	22.2	20.6	25.8
2	Cover Slab-2	77.36	230.51	1.122	4699	99.3	21.1	19.7	24.6
3	Cover Slab-3	77.48	230.25	1.118	4714	101.8	21.6	20.1	25.1

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

R. K. Rechan

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಮಹಾನ್ಗುಲಕ ಉಪ ವಿಭಾಗ
ಬಾಹ್ಯರೂಪನಕರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಸಿ.***ಪರಗುಲಕ***
End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-13-08 Date: 19/05/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	149.91 X 151.95 X 151.97	22779	8.824	421.6	18.5	18.5
2	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	150.40 X 150.02 X 149.30	22564	8.263	406.6	18.0	
3	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	151.91 X 151.44 X 151.58	23006	9.022	433.3	18.8	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಕರ್ತವ್ಯ ಕಾರ್ಯ ಪೂರ್ಣ ಆದುದರಿಂದ
ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯನಿರ್ವಾಹಕರು ಉಪ ನಿರ್ದೇಶಕರು
ಪ್ರತಿಪಾಲಕರು
ಪುನಃ ಪರಿಶೀಲನೆ
End of Report



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP=2023-06-13-08 Date: 09/06/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 09/06/2023

Date of test					: 09/06/2023						
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	151.79 X	22939	8.855	545.6	23.8	23.2	
					151.13 X						
					150.27						
2	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	151.58 X	23015	8.394	511.8	22.2		
					151.83 X						
					152.00						
3	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	149.35 X	22271	8.872	524.9	23.6		
					149.12 X						
					151.73						

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

ಇದೇ ಪರೀಕ್ಷಾ ವರದಿ ಉಪ ವಿಭಾಗ
ಪ್ರಾಚಾರ್ಯನವರು ಉಪ ವಿಭಾಗ
ಪುನಃ ಪರಿಶೀಲಿಸಿ, ದೃಢೀಕರಿಸಿ
Page 1/1
End of Report****



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-13-08 Date: 09/06/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	149.45 X 150.30 X 151.83	22463	8.904	517.8	23.1	23.0
2	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	150.21 X 150.31 X 151.91	22577	8.537	503.8	22.3	
3	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	149.81 X 149.34 X 151.77	22374	8.619	531.7	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಇದರೊಂದಿಗೆ ಒಮ್ಮಾನ್ಯತೆ ಪಡೆಯುವುದು
ಇದರೊಂದಿಗೆ ಒಮ್ಮಾನ್ಯತೆ ಪಡೆಯುವುದು
End of Report
ದಿ.ವಿ.ಎಂ.ಎ. ಬೆಂಗಳೂರು-1

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-06-13-08	Date: 19/05/2023
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu	
Agency	:	M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer's Reference	:	BBMP/EE/BTP/WO/164/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-05-23	
Customer ID	:	Drain Bottom Raft Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M20 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	

Date of test : 19/05/2023

Date of test : 19/05/2023										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	149.21 X	22235	8.834	420.1	18.9	18.5
					149.02 X					
					150.13					
2	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	150.93 X	22883	8.322	413.5	18.1	18.5
					151.61 X					
					151.96					
3	Drain Bottom Raft Concrete	M20	12/05/2023	19/05/2023	149.95 X	22513	8.157	417.7	18.6	18.5
					150.14 X					
					151.65					

* The results obtained are satisfactory as per standard requirements.

Note:

Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

ಶಿ.ವಿಂ ಪಿ ದ್ವೈತರಾಯನವರ ಉಪ ವಿಭಾಗ

~~ಪ್ರಾಚಾರ್ಯ~~ ಪರ್ವತೇಶ್ವರ
ಪ್ರಾಚಾರ್ಯನವರು ಉಪ ವಿಭಾಗ Page 1/1
ಬಿ ಬಿ ಎಂ.ಎ., ಬೆಂಗಳೂರು *****End of Report*****

Page 1/1

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

M : 9972924526 | Tel : +91 80 23444801 | E : info@hmtl.co.in
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-13-08 Date: 09/06/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R. Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-05-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	150.97 X 150.15 X 151.48	22668	8.330	531.1	23.4	23.1
2	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	151.57 X 149.14 X 149.22	22606	8.564	504.6	22.3	
3	Drain Bottom Raft Concrete	M20	12/05/2023	09/06/2023	149.73 X 150.53 X 150.56	22539	8.137	529.2	23.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

[Signature]
KARTHIK RECHAN

Authorized Signatory
Quality Manager

[Signature]
ಕರ್ತವ್ಯ ಕಾರ್ಯಾಲಯ ಅಧ್ಯಕ್ಷರು
ಕೃಷ್ಣರಾಯನಕುರ ಉಪ ನಿರ್ದೇಶಕರು
****End of Report****
ಬಿ.ಬಿ.ಎಂ.ಎ., ಬೆಂಗಳೂರು-14

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-13-08 Date: 22/05/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	150.15 X 149.73 X 150.68	22482	9.094	412.9	18.4	18.4
2	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	151.47 X 149.50 X 150.94	22644	8.125	409.4	18.1	
3	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	149.19 X 150.80 X 150.39	22499	8.142	418.7	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರದ ಅಧೀನದಲ್ಲಿ
ಜ್ಞಾನಪ್ರಸಾರಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಪುಟ 1/1
ಪುಟ ಮು.ಮ. *ಪೂರ್ಣರೂಪ*
End of Report****



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	: CP-2023-06-13-08	Date: 12/06/2023
Customer	: Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	: Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	: Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu	
Agency	: M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer's Reference	: BBMP/EE/BTP/WO/164/2022-23	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 17-05-23	
Customer ID	: Drain Side Wall Concrete	
Sample Type /Size	: 150X150X150 mm	
Sample grade/Age	: M20 / 28 Days Compressive Strength	
Reference to BIS codes	: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	

Date of test : 12/06/2023

Date of test			: 12/06/2023								
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength	
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)	
1	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	149.50 X	22378	8.226	521.5	23.3	22.8	
					149.69 X						
					149.09						
2	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	149.32 X	22341	8.510	492.7	22.1		22.8
					149.61 X						
					151.49						
3	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	149.37 X	22676	8.460	525.4	23.2	22.8	
					151.81 X						
					149.08						

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಪೂರ್ವಕ ಕಾರ್ಯದ ಮೇಲೆ ಅಧ್ಯಯನಕರವಾದ
ಜ್ಯೋತಿಸ್ವಾಮ್ಯನವರ ಉಪ ವಿಭಾಗ
ಬಿ ಬಿ ಎಂ.ಎ., ಬೆಂಗಳೂರು Page 4/4
****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Scanned by CamScanner



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/05/2023

Lab ID : CP-2023-06-13-08
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 22/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	149.42 X 151.45 X 149.77	22630	8.329	419.7	18.5	18.4
2	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	150.32 X 151.78 X 151.67	22816	8.925	424.1	18.6	
3	Drain Side Wall Concrete	M20	15/05/2023	22/05/2023	150.04 X 150.13 X 150.06	22525	8.781	408.3	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

8

ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಅಭಿವೃದ್ಧಿ ಇಲಾಖೆ
ಜ್ಯೋತಿಸ್ವಾಮಿಪುರ ಉಪ ವಿಭಾಗ
Page 1/1
ಪರಿಶೀಲನೆ ಮಾಡಿ ರಿಪೋರ್ಟ್ ಮಾಡಿ



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-13-08 Date: 12/06/2023
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	151.40 X 150.62 X 151.39	22804	9.009	536.5	23.5	23.0
2	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	149.24 X 149.02 X 150.94	22240	8.539	494.6	22.2	
3	Drain Side Wall Concrete	M20	15/05/2023	12/06/2023	151.80 X 150.07 X 151.57	22781	8.304	527.2	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಶ್ರೀಮತಿ ಕಾರ್ತಿಕ ರೇಚನ್ ಅವರ ಉಪಸ್ಥಿತಿಯಲ್ಲಿ
ಪ್ರಾಥಮಿಕ ಪರೀಕ್ಷೆಗಾಗಿ ಉಪಯುಕ್ತವಾಗಿರುವ
ಪ್ರತಿ ಸಾಂಪಲ್ ಚಲಾಯಿಸಲಾಗಿದೆ
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Scanned by CamScanner



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-06-13-08 Date: 19-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Type of Mix : WMM (Wet Mix Macadam)
Date of Test : 17-05-23
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	3745	4063	36.9	63.1	60-80
11.2	2152	6215	56.5	43.5	40-60
4.75	1865	8080	73.5	26.5	25-40
2.36	1145	9225	83.9	16.1	15-30
0.6	788	10013	91.0	9.0	8-22
0.075	758	10771	97.9	2.1	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

[Handwritten signature]

ಸಹಾಯಕ ಜಯಪಾಲಕ ಅಧೀನಪಡೆ
ಜ್ಯೋತಿಯನಸುರು ಉಪ ನಿರ್ದೇಶಕರು
ಬಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು
Page 1/1
Part 1



FOR CIVIL Pro.
[Signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2023-06-13-08 Date: 19-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 17-05-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample (passing 12.5 mm and retained on 10mm sieve)	A	302.4	302.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.4	72.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	226.5	229.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A=(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	24.9	23.8
6	Aggregate impact value (Mean of two tests)	Percentage	24.4	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಇದರಲ್ಲಿ ಉಪಯುಕ್ತವಾದ ಮಾಹಿತಿಗಳು ಉಪಯುಕ್ತವಾಗಿರುತ್ತವೆ ಎಂದು ದೃಢೀಕರಿಸಲಾಗಿದೆ.

ಇದರಲ್ಲಿ ಉಪಯುಕ್ತವಾದ ಮಾಹಿತಿಗಳು ಉಪಯುಕ್ತವಾಗಿರುತ್ತವೆ ಎಂದು ದೃಢೀಕರಿಸಲಾಗಿದೆ.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2023-06-13-08 Date: 19-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-05-23
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 17-05-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	24.4%	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.


R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Page 1/1

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLSWARAM, BANGALORE -3

**TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-06-13-08 Date: 29-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-23
Type of Mix : DBM-Plant (Dense Bituminous Macadam)
Date of Test : 26-05-23
Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	288	288	5.76	94.24	90-100
19	321	609	12.18	87.82	71-95
13.2	1022	1631	32.62	67.38	56-80
4.75	1050	2681	53.62	46.38	38-54
2.36	758	3439	68.78	31.22	28-42
0.3	680	4119	82.38	17.62	7-21
0.075	689	4808	96.16	3.84	2-8
PAN	192	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಇದರಲ್ಲಿ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಪ್ರಾ.ಪ್ರ.ಪಾಲಕರು ಉಪಸ್ಥಿತರು
ಇದರಲ್ಲಿ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಪ್ರಾ.ಪ್ರ.ಪಾಲಕರು ಉಪಸ್ಥಿತರು
End of Report



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLSWARAM, BANGALORE -3

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID : CP-RW-2023-06-13-08 Date: 30-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli
Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout,
Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-23
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 26-05-23

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	9.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	12.0		
Strength	Aggregate Impact Value	22.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.61	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.28	Maximum 2%	IS:2386 Part III

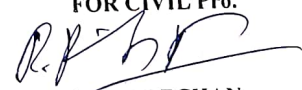
* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.




R KARTHIK RECHAN
Authorized Signatory
Quality Manager


ಇತರರ ಸಹಾಯದಿಂದ
ಪ್ರಾಪ್ತವಾದುದು ಉಪ ವಿಭಾಗ
ಪುನಃ ಪರಿಶೀಲಿಸಿ
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2023-06-13-08 Date: 30-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 26-05-23
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 26-05-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.54	11.68	9KN(Min)
2	Marshal flow at 60°C, mm	3.62	3.78	2-4
3	Percent air Voids	4.72	4.52	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.62	14.88	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	72.85	65-75
6	Density, g/cc	2.41	2.43	-

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಅಭಿವೃದ್ಧಿ
ಪ್ರಾಧಿಕಾರವು ಈ ಪರಿಶೀಲನೆಗೆ
ಪ್ರತಿಬಂಧಿಸಿದೆ. ಬಂಗಾಳುರು
Page 1/1
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGREGATE (IS:6241)

Lab ID : CP-RW-2023-06-13-08 Date: 29-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-23
Type of Mix : DBM(Dense Bitumous Macadam)
Date of Test : 26-05-23
Type of Binder : 60/70
% of Binder Used : 4.5%
Weight of Aggregate : 200.0 gm
Weight of Binder : 9.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.5	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಇದರಲ್ಲಿ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಪ್ರಾಚಾರ್ಯನುಕೂಲಿ ಉಪ ನಿರ್ದೇಶಕರು
ಇದರಲ್ಲಿ ಮುಖ್ಯ ಬಾಂಧವರು
****End of Report****



FOR CIVIL Pro.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE
(IS:6241)**

Lab ID : CP-RW-2023-06-13-08 Date: 29-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-23
Type of Mix : DBM(Dense Bitumnous Macadam)
Date of Test : 26-05-23

Type of Binder : 60/70
% of Binder Used : 4.5%
Weight of Aggregate : 200.0 gm
Weight of Binder : 9.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.5	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಕಾರ್ಯಕರ್ತನು ಒಪ್ಪಿಗೆಯನ್ನು
ಪ್ರಾಪ್ತಿಸಿದುದರಿಂದ ಈ ವರದಿ
ಮುಕ್ತಾಯಗೊಂಡಿದೆ
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2023-06-13-08 Date: 03-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Date of Receipt : 02-06-23
Type of Mix : DBM (Dense Bituminous Macadam)
Date of Test : 02-06-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	479.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.6	4.50
7	Average percentage	%	4.55	



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ್ಞಾನಪ್ರಸಾದ್ ಉಪ ನಿರ್ದೇಶಕರು
ಇ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-24
Page 1/2

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : CP-RW-2023-06-13-08

Date: 03-06-23

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH
37.5	0	0	0.0	100.0	100
26.5	20	20	4.2	95.8	90-100
19	92	112	23.4	76.6	71-95
13.2	81	193	40.3	59.7	56-80
4.75	85	278	58.0	42.0	38-54
2.36	57	335	69.9	30.1	28-42
0.3	95	430	89.8	10.2	7-21
0.075	25	455	95.0	5.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH
37.5	0	0	0.0	100.0	100
26.5	25	25	5.2	94.8	90-100
19	93	118	24.6	75.4	71-95
13.2	74	192	40.0	60.0	56-80
4.75	82	274	57.1	42.9	38-54
2.36	56	330	68.8	31.2	28-42
0.3	83	413	86.1	13.9	7-21
0.075	32	445	92.8	7.2	2-8

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL PRO
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 2/2

End of Report

ಇದರಲ್ಲಿ ಸಾಂಪಲ್‌ಗಳ ಅಭಿಮತವು
ಪೂರೈಸಲಾಗುವುದು ಎಂದು
ವಿ. ಬಿ. ಎ. ಎ. ಬಂಗಲೂರು-24

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)**

Lab ID : CP-RW-2023-06-13-08 Date: 01-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-23
Type of Mix : BC-Plant (Bituminous Concrete)
Date of Test : 30-05-23
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	90	90	1.8	98.2	90-100
9.5	698	788	15.8	84.2	70-88
4.75	900	1688	33.8	66.2	53-71
2.36	581	2269	45.4	54.6	42-58
1.18	487	2756	55.1	44.9	34-48
0.6	493	3249	65.0	35.0	26-38
0.3	536	3785	75.7	24.3	18-28
0.15	462	4247	84.9	15.1	12-20
0.075	352	4599	92.0	8.0	4-10
PAN	401	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯಪಾಲಕರು ಉಪ ವಿಭಾಗ
ಬಿ ಬಿ ಎಂ.ಎ. ಬೆಂಗಳೂರು-28
Page 1/1
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

**TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGRGATE
(IS:6241)**

Lab ID	:	CP-RW-2023-06-13-08	Date: 02-06-23
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu	
Agency	:	M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/164/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-05-23	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	30-05-23	

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.



R KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2023-06-13-08 Date: 02-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli
Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout,
Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-23
Type of Mix : BC (Bituminous Concrete)
Date of Test : 30-05-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	9.9	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	10.3		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.2	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.



R K
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2023-06-13-08	Date: 02-06-23
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu	
Agency	:	M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064	
Customer Reference	:	BBMP/EE/BTP/WO/164/2022-23	
Source of Sample	:	Hot Mix Plant, Bangalore	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-05-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	30-05-23	

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	—

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Land of Report



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2023-06-13-08 Date: 07-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Date of Receipt : 06-06-23
Type of Mix : BC (Bituminous Concrete)
Date of Test : 06-06-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	5.60	5.40
7	Average percentage	%	5.5	



FOR CIVIL Pro.
R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Lab ID

: CP-RW-2023-06-13-08

Date: 07-06-23

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm)		: 474			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
					100
19	0	0	0.0	100.0	90-100
13.2	10	10	2.1	97.9	70-88
9.5	59	69	14.6	85.4	53-71
4.75	125	194	40.9	59.1	42-58
2.36	65	259	54.6	45.4	34-48
1.18	30	289	61.0	39.0	26-38
0.6	20	309	65.2	34.8	18-28
0.3	56	365	77.0	23.0	12-20
0.15	38	403	85.0	15.0	4-10
0.075	25	428	90.3	9.7	

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm)		: 475			
IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
					100
19	0	0	0.0	100.0	90-100
13.2	8	8	1.7	98.3	70-88
9.5	68	76	16.0	84.0	53-71
4.75	115	191	40.2	59.8	42-58
2.36	75	266	56.0	44.0	34-48
1.18	29	295	62.1	37.9	26-38
0.6	15	310	65.3	34.7	18-28
0.3	48	358	75.4	24.6	12-20
0.15	49	407	85.7	14.3	4-10
0.075	36	443	93.3	6.7	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro
KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಪುನರಾವೇಶಿಸಿದ ಉಪಕರಣಗಳು
ಪರಿಶೀಲಿಸಿದವು
ಪ್ರ.ಪ್ರ.ಪ್ರ. ಬಂಗಲೂರು-24
Page 2/2
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES
SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2023-06-13-08 Date: 24-05-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer's Reference : BBMP/EE/BTP/WO/164/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 22-05-23
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test : 22-05-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	58	Min 45mm
2	Softening Point, °C	52.2	Min. 47°C
3	Ductility, cm	100	Min. 40cm
4	Flash point, °C	310	Min. 220°C
	Fire point, °C	312	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಪ್ರತಿರೋಧಕರ ಒಪ್ಪಿಗೆಯಿಲ್ಲದೆ
ಪ್ರತಿರೋಧಕರ ಒಪ್ಪಿಗೆಯಿಲ್ಲದೆ
ಪ್ರತಿರೋಧಕರ ಒಪ್ಪಿಗೆಯಿಲ್ಲದೆ
Page 1/1
End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-06-13-08 Date: 07-06-23
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Kogilu
Agency : M/s. K.R Constructions, Prop.C Mahesh, No:286, 7th B Cross, Jakkur Layout, Bangalore-560064
Customer Reference : BBMP/EE/BTP/WO/164/2022-23
Sample Condition : Satisfactory
Date of Receipt : 06-06-23
Type of Mix : Tack coat
Date of Test : 06-06-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.769
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.021
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.233
7	Average	Kg/sq.m	0.239	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Agency/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL PRO

[Signature]
* R KARTHIK-RECHAN
Authorized Signatory
Quality Manager

[Handwritten signature]
End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES